
DEPARTMENT OF THE ARMY 10100.TD
CORPS OF ENGINEERS, TULSA DISTRICT JAN 97
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TULSA DISTRICT GUIDE SPECIFICATION

SECTION 10100

MISCELLANEOUS ITEMS

1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

PORCELAIN ENAMEL INSTITUTE (PEI)

PEI (1965) Architectural Porcelain Enamel on Steel for Exterior Use.

FEDERAL SPECIFICATIONS (FS)

FS GG-S-172 (Rev D & Am 1) Screen Projection

1.2 GENERAL REQUIREMENTS

Supplementary parts necessary to complete each item shall be included even though such work is not shown definitely or specified. The Contractor shall furnish to the proper trades, all anchors, sockets, or fastenings required for securing items to other construction. Details and specifications of items for which standard products are available, are representative guides of requirements for such items. Standard products, generally meeting such requirements, will be accepted, if details of construction and installation are approved by the Contracting Officer. Gages of sheet iron and steel specified are U.S. Standard for sheet and plate. Extruded section shall be at least 1/8-inch thick, unless otherwise specified or shown on the drawings.

1.3 SUBMITTALS

SD-04 Drawings

Shop drawings showing sizes, details of construction, method of construction, method of assembling, hardware materials, colors, method of mounting, location of each item, installation of items, and other details shall be submitted for approval in accordance with the requirements of the SECTION 01300 - SUBMITTAL DESCRIPTIONS for all items specified herein. Materials fabricated or delivered to the job site before approval of the shop drawings shall be subject to rejection.

SD-14 Samples

One complete sample sign of the type to be used on the project [and illustrations or samples for all graphic symbol signs] shall be submitted to the Contracting Officer for approval. If approved, the samples may be incorporated in the work.

2 MATERIALS AND EXECUTION

2.1 BULLETIN BOARDS

Bulletin Boards shall be of the size indicated and shall be constructed of 6063 T5 extruded aluminum alloy with satin anodized finish. Frames shall be secured to wall by means of concealed screws or bolt hangers. Bulletin boards shall have 13 mm 1/2-inch thick plywood backs, with 7 mm 1/4-inch thick cork pinning surface glued thereon. Cork color shall be [a natural cork color] [as selected by the Contracting Officer]. Doors shall be plate glass with satin finish anodized aluminum frames. Door frames shall have removable glazing bead applied on the inside. Glass shall be as specified in the SECTION: GLASS AND GLAZING. Each bulletin board door shall be complete with hardware including full length piano type hinges and lock. Hinges shall be either brass with brushed chrome finish or aluminum. All other hardware shall be aluminum. All aluminum hardware shall have satin anodized finish.

2.2 CHALK AND TACK BOARDS

Chalkboards and tackboards shall be the products of one manufacturer. Chalkboards shall consist of writing surface, [tackboards as applicable,] snap-on aluminum frame, chalk trough, mullions, display rail, and accessories. Chalkboards 3650 mm 12 feet or less in length shall be in one piece. Larger units shall have one joint in the center, jointed with a metal spline. Faces of the splines shall match, and be in the same plane as the frame. [Sliding chalkboards shall consist of [two] [four] [] sliding [chalkboard] [tackboard] panels in front of one fixed, full length chalkboard.]

2.2.1 Writing Surface

Writing surface shall be either slate or porcelain enamel, at the Contractor's option.

a. Slate

Writing surface shall be selected-quality domestic slate free from ribbons, concentrations of secondary minerals, imperfections and defects; be fabricated from natural slate blocks. Slate shall be 7 to 10 mm 1/4 to 3/8-inch thick; size and length of each slate slab shall be [as indicated] [_____]. The exposed face shall be surfaced to its natural plane and shall have a smooth, honed finish. Each slate slab shall bear the manufacturer's label and shall indicate the location of the quarry. Color shall be [black] [green] [white] [as indicated on the Room Color and Finish Schedule].

b. Porcelain Enamel

NOTE: Liquid chalkboards shall have a white, semi-gloss surface, and be furnished with a supply of liquid chalk markers and erasers.

Writing surface shall be factory laminated assembly consisting of a face sheet of 24 gage sheet steel with porcelain enamel finish, a 7 to 10 mm 3/8-inch to 1/2-inch plywood, particleboard, or hardboard core, and a 1.3 mm

0.005-inch thick aluminum backing sheet. The porcelain enamel surface shall be fused to the steel at not less than 760 degrees C 1,400 degrees F in accordance with PEI. [Writing surface shall be finished semi-gloss.] Color shall be [white] [_____] [as indicated on the Room Color and Finish Schedule]. [A supply of one dozen liquid chalk markers in assorted colors, and a felt eraser, shall be furnished with each chalkboard.]

2.2.2 Display (Map) Rail

Display rail shall be snap-on type, 25 mm 1-inch wide and 6 mm 1/4-inch thick cork insert in an extruded aluminum frame, and shall be mounted along the top of the chalkboard. Color of cork shall be a natural cork color.

2.2.3 Tackboard

Tackboard shall have 6 mm 1/4-inch thick core face factory laminated to a hardboard or particleboard core, and be of the thickness required so that the face of the cork will be in the same plane as the face of the writing surface. Color of the cork shall [be a natural cork color] [match the chalkboard surface] [be as indicated [on the Room Color and Finish Schedule]].

2.2.4 Accessories

Accessories shall be fabricated from aluminum with snap-on holders of spring steel. Design shall be snap-on type for mounting on the display rail.

Accessories shall include:

Map hooks, two per 1200 mm 4-foot section of display rail.

Paper holder, two per 1200 mm 4-foot section of display rail.

Roller map brackets with thumb screws, two per 2400 mm 8-foot section of display rail.

2.3 FIRE EXTINGUISHER CABINETS

Metal fire extinguisher cabinets shall be furnished and installed where shown on the drawings or specified. Cabinets shall be of the recessed type suitable for 9.5 liter 2-1/2 gallon extinguishers. Box and trim shall be of heavy gage rolled steel. Door shall be a rigid frame with full length piano type hinge and double strength (DSA) glass panel. Door and box shall be prime-coated inside and out.

2.4 PROJECTION SCREEN

NOTE: Coordinate the subtype and screen size of the front projection type. Subtype shall either be 8 or one selected from the table below.

2.4.1 Front Projection

Standard duty, wall-mounted type conforming to FS GG-S-172, type III, class B - lenticular reflecting surface, subtype [8] []. Screen shall be hanging, manual, spring operated. Size shall be [1830 by 2440 mm 72 by 96 inches] [] [as indicated on the drawings]. Screen shall be [center mounted immediately above the chalk and tack board] [mounted in the location

indicated on the drawings] in accordance with the manufacturer's instructions.

2.4.2 Rear Projection

Aluminum frame and a projection surface of nonglare transparent plate glass, rigid acrylic plastic, or flexible vinyl. Glass and rigid acrylic plastic substrates shall be 6 mm 1/4-inch thick. Flexible vinyl substrate shall be not less than 12 mil thick. An optical coating with the following properties shall be bonded to the substrate: neutral gray tint, medium brightness, high resolution, and wide-angle emulsion. Flexible screen shall be seamless and taut within its frame. Screens shall be installed with the uncoated side towards the audience with installation in accordance with the manufacturer's written instructions. Size shall be [1830 by 2440 mm 72 by 96 inches] [] [as indicated on the drawings].

2.5 INTERIOR SIGNS

2.5.1 Fabrication and Design

The graphics and signage specified herein shall be provided as a total system and shall be so furnished and installed [as indicated on the drawings]. Signs shall be [clear matte acrylic plastic that is subsurface printed with both the message and background color] [laminated acrylic plastic with engraved message], 3 mm 1/8-inch minimum thickness. Signs shall be [50 2] [] mm inches high and of a length sufficient to adequately contain the required message. [Letters] [and] [numbers] shall be [38 mm 1-1/2] [] inches high, white in color. [The center laminate shall be white.] [Background] [Face laminate] color shall be []. Type face of the message for all signs shall be "Helvetica Medium" style, upper [and lower] case. The margins at the ends of the sign shall be equal. Door [number] signs shall be centered and mounted on the [door 1500 mm 5 feet above the finished floor] [top jamb of the door frame]. Door numbers shall reflect the room numbers indicated on the floor plan [and shall be listed first, followed by a 50 mm 2-inch space and then the message]. For rooms with more than one door, door numbers shall be alphanumeric (i.e., 110A, 110B, 110C). Restroom door signs shall be MEN and WOMEN (graphic symbols), centered and mounted on the door 1500 mm 5 feet above the finished floor.

2.5.2 Mounting

Height and location of the signs shall be as directed by the Contracting Officer unless otherwise specified. Signs shall be [mounted using either vinyl tape or adhesive as recommended by the manufacturer for the specific application. Adhesive shall cover the entire back surface of the sign panels.] [attached by two round head nonferrous screws, one centered at each end in a manner that will not interfere with the message. Signs larger than 50 mm 2 inches in height shall be attached with four screws, equally spaced, one in each corner. Color of screws shall match the background color of the sign.] Signs shall be mounted in place after all other interior work in the immediate vicinity has been completed.

2.5.3 Handicapped Signs

The international wheelchair symbol for the handicapped shall be white on a field of international blue. Signs shall be 100 by 100 mm 4 inches by 4 inches in size with the symbol centered. One sign shall be required at each appropriate restroom [, centered on the door with the bottom edge 815 mm 32 inches above the finished floor]. [Signs shall be attached to the wall with

the near edge 4 inches from the strike jamb of the door, and the bottom edge 815 mm 32 inches above the finish floor.]

2.6 DOCK BUMPERS AND WHEEL CHOCK-STOPS

NOTE: Wood dock bumpers will be specified in SECTION: ROUGH CARPENTRY.

2.6.1 Bumpers

Bumpers shall be resilient rubber material of rubberized fabric truck tires cut to uniform size pads and punched to receive 19 mm 3/4-inch supporting rods. Resilient portion of the bumpers shall be [250] [300] [500] mm [10] [12] [20] [] inches high, [275] [550] [825] mm [11] [21] [33] [] inches wide, and [113] [150] [] mm [4-1/2] [6] [] inches deep, minimum [sized as indicated on the drawings]. Bumpers shall be [113] [150] [] mm [4-1/2] [6] [] inches thick, minimum [stand out from dock], and closed with two 75 by 63 by 6 mm 3-inch by 2-1/2-inch by 1/4-inch structural steel angles under approximately 680 kg 1,500 pounds pressure. Angles shall be welded to 19 mm 3/4-inch rods at one end and closed with threaded rod and nut at the other end. Anchor leg of angle shall extend 63 mm 2-1/2 inches beyond the rubber surface at each end and contain two or three 21 mm 13/16-inch anchor bolt holes. Anchor the legs to the dock wall with preset 19 mm by 200 mm 3/4-inch by 8-inch cadmium plated J bolts or hex head bolts, nuts, and washers.

2.6.2 Wheel Chock-stops

Chocks shall be made of rubberized fabric truck tires held together by 1/4-inch closer plates and three 19 mm 3/4-inch steel bolts. Chocks shall be 8 inches high by 8 inches wide and attached to the dock with a 3.05 m 10-foot chain, 6 mm 1/4-inch thick. Provide one wheel chock per vehicle stall.

2.7 DIRECTORY LETTER BOARD

Directory shall be a two-door style, size [1200 by 900] [1500 by 900] [1800 by 900] [1500 by 1200] [1800 by 1200] [48 by 36] [60 by 36] [72 by 36] [60 by 48] [72 by 48] inches [of the size indicated on the drawings]. Frames shall be constructed of 6063 T5 extruded aluminum alloy. Frames shall be secured to wall by means of concealed screws or bolt hangers. Panels shall have precision grooves every 6 mm 1/4-inch to accept changeable letters. Grooved background felt color shall be [] [as noted on the drawings]. Changeable letters and numbers shall be 10 mm 3/8-inch Helvetica white molded plastic. Assortments of letters shall include three entire alphabets with emphasis on most used characters and three sets of numbers to 100. Doors shall be plate glass with anodized aluminum frames mounted with full length piano hinges. Glass shall be as specified in SECTION: GLASS AND GLAZING. Directories shall be furnished complete with all hardware including tamperproof cylinder lock. All aluminum and hardware shall have a satin anodized finish.

2.8 PUBLIC TELEPHONE ENCLOSURES

Public telephone enclosures shall be manufacturer's standard wall-mounted type with telephone directory shelf; minimum size - [775] [] mm high x [500] [] mm wide by [300] [] mm [31] [] inches high x [20] [] inches wide x [12] [] inches deep. Back board shall be perforated and shall enclose sound-absorbent material. Enclosure shall be

finished with plastic laminate, color as [selected by the Contracting Officer.] [indicated on the drawings' Room Finish and Color Schedule.]
Directory shelf shall be large enough to hold two directories up to two inches thick each.